Amendment of Application for a Scientific Take Permit with NOAA Fisheries Section 10 #1335

Filed by: Aquatic Riparian Effectiveness Monitoring Program (AREMP) for the Northwest Forest Plan

Amendments in bold.

A. Title:

Application for Permit for Scientific Purposes under the Endangered Species Act of 1973.

B. Species/ESU:

See attached sheet.

C. Date:

26 January 2006

D. Applicant Identity:

- a. Ted Sedell, Field Coordinator
- b. USDA Forest Service
- c. 4077 SW Research Way, Corvallis, OR 97333
- d. Tel. 541-750-7069, Fax. 541-750-7234, Email tsedell@fs.fed.us

E. Information on Personnel, Cooperators and Sponsors.

1. Principal Investigators and Field Supervisors

Ted Sedell – Field Coordinator & Supervisor (541) 750-7069, tsedell@fs.fed.us

Chris Moyer – Fish Biologist, Principle Investigator (541) 750-7017, cmoyer@fs.fed.us

Kirsten Gallo – Aquatic Ecologist, Field Supervisor (541) 750-7021, kgallo@fs.fed.us

Kris Fausti – Field Coordinator & Supervisor (541) 750-7081, <u>kfausti@fs.fed.us</u>

- 2. Field personnel are not hired or known at this time.
- 3. Project Funding Provided By: United States Forest Service (Region 6), The Bureau of Land Management (Northwest Region), Environmental Protection Agency (Western), and NOAA Fisheries (Northwest Region).

- 4. Not Applicable
- 5. Not Applicable
- 6. Not Applicable

F. Project Description, Purpose and Significance

- 1. This project is designed to monitor land use actions on all federal lands covered by the Northwest Forest Plan (NWFP). This project will tie fish and amphibian species composition data to physical habitat, water chemistry, macroinvertebrate, periphyton, wood and substrate data. This data will be used to assess the condition of a watershed through a Decision Support Model (DSM). Local experts will help in determining limiting factors that may have more influence on watershed health for the DSM. This research will help define the condition of watersheds under the Northwest Forest Plan and help identify limiting factors. The Aquatic Riparian Effectiveness Monitoring Program (AREMP) document by Reeves et. al (2000) has more detailed information on the specific framework for this monitoring program.
- 2. The proposed monitoring project is in direct response to directive in the Northwest Forest Plan (USDA-USDI 1994).
- 3. The project is part of a large scale research management plan (Reeves et al. 2000, Mulder et al. 1999).
- 4. The data will be used to assess watershed condition within the area of the Northwest Forest Plan. Users of this information will primarily be the AREMP team with Steve Lanigan as the module lead. Portions of this study are similar and may be comparable to the EPA EMAP study (Kaufmann et al. 1999), Forest Service Region 6 stream inventory (USDA 1999) and Oregon Department of Fish and Wildlife (ODFW) habitat inventory (Moore et al. 1999). Individual National Forest and BLM districts may also use this data for their land use planning.
- 5. Listed species would only be used for this project if they happen to occur in our randomly selected 6th field watersheds. The use of them would help to characterize the selected watershed and used in a comparison of other watersheds that may have either healthy populations or populations that have gone extinct of the same species. If environmental conditions do not allow for the sampling to be done, we may wait until conditions improve for sampling to occur or cease sampling aquatic vertebrates altogether in a given sample site.

G. Project Methodology

1. The Aquatic and Riparian Effectiveness Monitoring Program underwent a status review in 2005 and has been established as an ongoing long-term monitoring project. No end date available.

2. Fish and aquatic amphibian species will be collected using a programmable output backpack electrofisher manufactured by Smith-Root Co. (LR-24 & 12POW). Collection will be for identification, measurement and release in the field. A single pass technique will be employed to get species composition. Individuals captured will be measured for length frequency analysis. Data recorded at each site will include: Electrofisher settings, crew members, a GPS site location, effort in seconds, conductivity, water temperature, species, number of individuals captured, and displacement and length of randomly selected individuals.

Sample sites are determined by randomly selecting 6th field HUC watersheds within each Northwest Forest Plan province. Within these sub-watersheds, 4 to 10 random sites will be sampled. At each site, reach length is determined by the average bankfull stream width. Sites are 20 stream widths long with a minimum length of 160 meters to a maximum of 480 meters in length. Eleven equally spaced transects are placed along this reach. In order to obtain complete species lists within each watershed we will start by sampling the lowest and highest site in the watershed and then randomly select sites after this. A species richness curve will be calculated after each site is sampled and if three consecutive sites are sampled without finding new species sampling will stop. Fish will be held for the length of time it takes to sample between transects in each sample site. If electrofishing is not permitted in these areas we request to be able to electrofish in riffle habitat only. This will avoid concentrations of listed salmonids and still allow us to collect non-game and aquatic amphibians for identification.

Attached to the application is a list of 4th and 6th field watersheds to be sampled in the 2006 summer field season for each ESU. This list will be continually updated each year as we acquire additional randomly selected watersheds.

3. NMFS guidelines for electrofishing will be followed when listed fish are thought to be present. Electrofishing will be performed by experienced personnel or under their direct supervision. Streams above 18 °C and below 4 °C will not be sampled. Streams that have less than 0.3 meters of visibility will not be sampled. A conductivity and temperature reading will be taken before electrofishing is started and the electrofishing unit will be adjusted accordingly. The unit will be first set at lower voltage and straight DC current settings and increased with the possible use of pulsed DC current if straight DC is found to not be effective. The correct setting will be found that can capture fish effectively and minimize injury. Electrofishing will not be performed if eggs or alevin are suspected to be present in gravels and/or if adult spawners may be present in the system. We will take all opportunities to coordinate our sampling efforts with state fish and wildlife agencies and federal agencies to avoid duplicate sampling whenever possible.

H. Description and Estimates of Take

- 1. Take estimates for ESUs and 6th field sub-watersheds to be sampled are provided on the attached spreadsheet.
- 2. Potential sampling locations may occur on any of the 6th field watersheds listed in the attached tables. Sampling efforts will occur on federal lands between May 1st and September 30th of 2006.
- 3. Potential sampling locations of 6th field watersheds are listed in the attached summary tables. Sampling may take place in areas of specific ESU's where distribution and presence of these listed fish may not be mapped or known.
- 4. See Attached Watershed List Tables
- 5. Estimates of potential fish captured and estimated mortality will be included in the attached summary tables listed in section H4 of this document. All mortalities will be unintentional (indirect mortalities). Electrofishing can cause mortality for several different reasons. All precautions and procedures listed in section G3 of this document will be followed to reduce the number of potential mortalities that could occur.
- 6. Our current sampling strategy may randomly sample 10% of the habitat located in a 6th field watershed. Based on this we would not expect to sample more than 10% of a listed population in any given watershed. Of the fish sampled we would not have more than 4 % mortality. At the end of the sampling season we will be able to report exact numbers of listed fish sampled and associated mortalities.

I. Transportation of Listed Species

- 1. Not Applicable
- 2. Not Applicable
- 3. Not Applicable

J. Cooperative Breeding Program

Not Applicable

K. Previous or Concurrent Activities Involving Listed Species

- 1. Permit # TE041189-4 for bull trout *Salvilinus confluentus* with U.S. Fish and Wildlife Service for Oregon and Washington. Renewed for 5 years and amended for 2006.
- 2. Section 10 permit for SONCC Coho with the PSW Region NOAA Fisheries in California pending.
- 3. Section 4(d) permit for California Coast Chinook and Central California Coast Steelhead pending.

| Certification |
|---|
| "I hereby certify the foregoing information is complete, true and correct to the best of my |
| knowledge and belief. I understand this information is submitted for the purpose of |
| obtaining a permit under the Endangered Species Act of 1973 (ESA) and regulations |
| promulgated thereunder, and that any false statement may subject me to the criminal |
| penalties of 18 U.S.C. 1001, or to penalties under the ESA." |
| |
| |
| |

Date

Ted Sedell, Field Coordinator AREMP, USDA Forest Service

L.

Signature

| ESU | Life Stage | Origin | Take Activity Category | Maximum Take | Indirect Mortality |
|---------------|------------|--------------------|--------------------------|--------------|--------------------|
| UCR Steelhead | Juvenile | Naturally Produced | Capture, Handle, Release | 515 | 15/515 |
| UCR Steelhead | Juvenile | Hatchery Produced | Capture, Handle, Release | 306 | 6/306 |
| LCR Steelhead | Juvenile | Naturally Produced | Capture, Handle, Release | 515 | 15/515 |
| MCR Steelhead | Juvenile | Naturally Produced | Capture, Handle, Release | 515 | 15/515 |
| UWR Steelhead | Juvenile | Naturally Produced | Capture, Handle, Release | 306 | 6/306 |
| CR Chum | Juvenile | Naturally Produced | Capture, Handle, Release | 5 | 0 |
| HCS Chum | Juvenile | Naturally Produced | Capture, Handle, Release | 12 | 2/12 |
| HCS Chum | Juvenile | Hatchery Produced | Capture, Handle, Release | 12 | 2/12 |
| PS Chinook | Juvenile | Naturally Produced | Capture, Handle, Release | 930 | 30/930 |
| PS Chinook | Juvenile | Hatchery Produced | Capture, Handle, Release | 930 | 30/930 |
| LCR Chinook | Juvenile | Naturally Produced | Capture, Handle, Release | 515 | 15/515 |
| LCR Chinook | Juvenile | Hatchery Produced | Capture, Handle, Release | 92 | 2/92 |
| UCR Chinook | Juvenile | Naturally Produced | Capture, Handle, Release | 309 | 9/309 |
| UCR Chinook | Juvenile | Hatchery Produced | Capture, Handle, Release | 92 | 2/92 |
| UWR Chinook | Juvenile | Naturally Produced | Capture, Handle, Release | 306 | 6/306 |
| UWR Chinook | Juvenile | Hatchery Produced | Capture, Handle, Release | 92 | 2/92 |
| LCR Coho | Juvenile | Naturally Produced | Capture, Handle, Release | 306 | 6/306 |
| LCR Coho | Juvenile | Hatchery Produced | Capture, Handle, Release | 92 | 2/92 |
| SONCC Coho | Juvenile | Naturally Produced | Capture, Handle, Release | 515 | 15/515 |
| SONCC Coho | Juvenile | Hatchery Produced | Capture, Handle, Release | 92 | 2/92 |
| OR Coast Coho | Juvenile | Naturally Produced | Capture, Handle, Release | 509 | 10/509 |
| OR Coast Coho | Juvenile | Hatchery Produced | Capture, Handle, Release | 92 | 2/92 |

| State | 6th Field HUC | 6th Field Sub-watershed Stream Systems | Basin | Sub-Basin | County |
|----------|---------------|--|------------------------------|---------------------------|-------------------|
| OR | 170703060901 | UPPER BADGER CREEK | DESCHUTES | LOWER DESCHUTES | Hood River/Wasco |
| OR | 170900050107 | BOULDER CREEK | WILLAMETTE | NORTH SANTIAM | Linn/Marion |
| OR | 170900110201 | CUB CREEK | WILLAMETTE | LOWER WILLAMETTE | Marion/Clackamas |
| OR | 171003020403 | DREW CREEK | SOUTHERN OREGON COASTAL | SOUTH UMPQUA | Douglas |
| OR | 171003080304 | EVANS CREEK | SOUTHERN OREGON COASTAL | MIDDLE ROGUE | Jackson |
| OR | 170900050503 | GOLD CREEK | WILLAMETTE | NORTH SANTIAM | Marion |
| OR | 171003090107 | LOWER CARBERRY | SOUTHERN OREGON COASTAL | APPLEGATE | Jackson |
| OR | 171002060602 | LOWER INDIAN CREEK | NORTHERN OREGON COASTAL | SIUSLAW | Lane |
| OR | 170900010303 | LOWER SALT CREEK | WILLAMETTE | MIDDLE FORK WILLAMETTE | Lane |
| OR | 171002030204 | NESTUCCA RIVER/ NIAGARA CREEK | NORTHERN OREGON COASTAL | WILSON/TRASK/NESTUCCA | Tillamook/Yamhill |
| OR | 171003070803 | UPPER SOUTH FORK LITTLE BUTTE CREEK | SOUTHERN OREGON COASTAL | UPPER ROGUE | Jackson/Klamath |
| OR | 170900020201 | TABLE MOUNTAIN | WILLAMETTE | COAST FORK WILLAMETTE | Lane/Douglas |
| OR | 171002060301 | UPPER WILDCAT CREEK | NORTHERN OREGON COASTAL | SIUSLAW | Lane |
| OR | 171003110304 | LOWER SUCKER CREEK | SOUTHERN OREGON COASTAL | ILLINOIS | Josephine |
| OR | 170900020304 | MIDDLE UPPER COAST FORK WILLAMETTE RIVER | WILLAMETTE | COAST FORK WILLAMETTE | Lane |
| OR | 171003020203 | SQUAW | SOUTHERN OREGON COASTAL | SOUTH UMPQUA | Douglas |
| OR | 171003070802 | LOWER NORTH FORK LITTLE BUTTE CREEK | SOUTHERN OREGON COASTAL | UPPER ROGUE | Jackson |
| OR | 170900040107 | UPPER WHITE BRANCH | WILLAMETTE | MCKENZIE | Lane/Linn |
| OR | 170900050203 | HUMBUG CREEK | WILLAMETTE | NORTH SANTIAM | Marion |
| OR OR | 170703020204 | CRESCENT LAKE | DESCHUTES NORTHERN OREGON | UPPER DESCHUTES | Klamath |
| | 171002060501 | UPPER DEADWOOD CREEK | COASTAL | SIUSLAW | Lane |
| OR | 170900110304 | HIGH ROCK CREEK | WILLAMETTE | LOWER WILLAMETTE | Clackamas |
| OR | 170900060604 | FALLS CREEK | WILLAMETTE | SOUTH SANTIAM | Linn |
| OR | 171003070403 | WILLOW CREEK | SOUTHERN OREGON | UPPER ROGUE | Jackson |

| | | | COASTAL | | |
|----------|-----------------|----------------------------------|-------------------------------|------------------|-------------------------|
| OR | | | SOUTHERN OREGON | | |
| OD | 171003100405 | KELSEY CREEK | COASTAL | LOWER ROGUE | Josephine/Douglas/Curry |
| OR OR | 170900050202 | NORTH FORK BREITENBUSH RIVER | WILLAMETTE SOUTHERN OREGON | NORTH SANTIAM | Marion/Clackamas |
| UK | 171003010103 | DIAMOND LAKE EAST | COASTAL | NORTH UMPQUA | Douglas |
| OR | 17 10030 10 103 | DIAMOND LAKE LAGT | SOUTHERN OREGON | NORTH OWI QUA | Douglas |
| 0.1 | 171003020803 | ELK VALLEY/BOBBY | COASTAL | SOUTH UMPQUA | Douglas |
| OR | | | SOUTHERN OREGON | | 3 3 |
| | 171003010204 | THIRSTY CREEK | COASTAL | NORTH UMPQUA | Douglas |
| OR | 170900110101 | UPPER HOT SPRINGS FORK COLLAWASH | WILLAMETTE | LOWER WILLAMETTE | Clackamas/Marion |
| OR | 170900110601 | UPPER CLEAR CREEK | WILLAMETTE | LOWER WILLAMETTE | Clackamas |
| OR | | | SOUTHERN OREGON | | |
| 0.0 | 171003030401 | PARADISE CREEK | COASTAL | UMPQUA | Douglas |
| OR | 171003090302 | MIDDLE LITTLE APPLEGATE | SOUTHERN OREGON COASTAL | APPLEGATE | Jackson |
| OR | 17 1003090302 | WIDDLE LITTLE APPLEGATE | COASTAL | MIDDLE FORK | Jackson |
| OIX | 170900010701 | LOOKOUT POINT RESERVOIR | WILLAMETTE | WILLAMETTE | Lane |
| OR | | | SOUTHERN OREGON | | |
| | 171003070504 | HAWK CREEK | COASTAL | UPPER ROGUE | Jackson |
| OR | | | SOUTHERN OREGON | | |
| | 171003120501 | UPPER HUNTER | COASTAL | CHETCO | Curry |
| OR | 170703020101 | CLOVER CREEK | DESCHUTES | UPPER DESCHUTES | Klamath |
| OR | 474000044400 | LIDDED ON/ITT ODEEK | SOUTHERN OREGON | NODTHUMBOUM | Decile |
| OR | 171003011106 | UPPER CAVITT CREEK | COASTAL SOUTHERN OREGON | NORTH UMPQUA | Douglas |
| UK | 171003110303 | GRAYBACK CREEK | COASTAL | ILLINOIS | Josephine |
| OR | 170703010502 | LOWER TUMALO CREEK | DESCHUTES | UPPER DESCHUTES | Deschutes |
| OR | 170700010002 | LOWER TOWNES SKEEK | SOUTHERN OREGON | 011210200110120 | Descrities |
| 0.1 | 171003090104 | LOWER ELLIOTT | COASTAL | APPLEGATE | Siskiyou |
| WA | 171100040104 | GLACIER CREEK | PUGET SOUND | NOOKSACK | Whatcom |
| WA | 171100150110 | LITTLE NISQUALLY RIVER | PUGET SOUND | NISQUALLY | Lewis |
| WA | 170800020401 | UPPER SIOUXON CREEK | LOWER COLUMBIA | LEWIS | Skamania |
| WA | 170200080103 | LOWER LOST RIVER | UPPER COLUMBIA | METHOW | Okanogan |
| WA | 171100060201 | SUIATTLE RIVER HEADWATERS | PUGET SOUND | SAUK | Snohomish |
| WA | 170200110403 | CHUMSTICK CREEK | UPPER COLUMBIA | WENATCHEE | Chelan |
| WA | 171100150101 | | PUGET SOUND | NISQUALLY | Pierce/Lewis |
| WA | 170800040205 | JOHNSON CREEK | LOWER COLUMBIA | UPPER COWLITZ | Lewis |
| WA | 170800020503 | COPPER CREEK | LOWER COLUMBIA | LEWIS | Skamania |
| | | | | | |

| WA171100050502EAST FORK BACON CREEKPUGET SOUNDUPPER SKAGITWhatcomWA171001040103SATSOP RIVER MIDDLE FORKWASHINGTON COASTALLOWER CHEHALISMasonWA171100060101SLOAN CREEKPUGET SOUNDSAUKSnohomishWA170200080204CEDAR CREEKUPPER COLUMBIAMETHOWOkanoganWA170701051004MIDDLE LITTLE WHITE SALMON RIVERMIDDLE COLUMBIAMIDDLE COLUMBIA/HOODSkamaniaWA171100090107LOWER BECKLER RIVERPUGET SOUNDSKYKOMISHKing/SnohomishWA171100090206LOWER SOUTH FORK SKYKOMISH RIVERPUGET SOUNDSKYKOMISHSnohomish/KingWA171100200302LOWER GRAY WOLF RIVERPUGET SOUNDDUNGENESS/ELWHAClallumWA17100050806LOWER BAKER RIVER-LAKE SHANNONPUGET SOUNDUPPER SKAGITSkagit/WhatcomWA170800020404COUGAR CREEKLOWER COLUMBIALEWISSkamania/CowlitzWA171100140105UPPER GREENWATER RIVERPUGET SOUNDPUYALLUPPierceWA171001010401NORTH SOL DUC RIVERWASHINGTON COASTALSOLEDUCClallum | WA | 171100040301 | UPPER SOUTH FORK NOOKSACK RIVER | PUGET SOUND | NOOKSACK | Whatcom/Skagit |
|---|----|--------------|----------------------------------|--------------------|----------------------|------------------|
| WA 171100060101 SLOAN CREEK PUGET SOUND SAUK Snohomish WA 170200080204 CEDAR CREEK UPPER COLUMBIA METHOW Okanogan WA 170701051004 MIDDLE LITTLE WHITE SALMON RIVER MIDDLE COLUMBIA MIDDLE COLUMBIA/HOOD Skamania WA 171100090107 LOWER BECKLER RIVER PUGET SOUND SKYKOMISH King/Snohomish WA 171100090206 LOWER SOUTH FORK SKYKOMISH RIVER PUGET SOUND SKYKOMISH Snohomish/King WA 171100200302 LOWER GRAY WOLF RIVER PUGET SOUND DUNGENESS/ELWHA CIallum WA 171100050806 LOWER BAKER RIVER-LAKE SHANNON PUGET SOUND UPPER SKAGIT Skagit/Whatcom WA 170800020404 COUGAR CREEK LOWER COLUMBIA LEWIS Skamania/Cowlitz WA 171100140105 UPPER GREENWATER RIVER PUGET SOUND PUYALLUP Pierce | WA | 171100050502 | EAST FORK BACON CREEK | PUGET SOUND | UPPER SKAGIT | Whatcom |
| WA 170200080204 CEDAR CREEK UPPER COLUMBIA METHOW Okanogan WA 170701051004 MIDDLE LITTLE WHITE SALMON RIVER MIDDLE COLUMBIA MIDDLE COLUMBIA/HOOD Skamania WA 171100090107 LOWER BECKLER RIVER PUGET SOUND SKYKOMISH King/Snohomish WA 171100090206 LOWER SOUTH FORK SKYKOMISH RIVER PUGET SOUND SKYKOMISH Snohomish/King WA 171100200302 LOWER GRAY WOLF RIVER PUGET SOUND DUNGENESS/ELWHA CIallum WA 171100050806 LOWER BAKER RIVER-LAKE SHANNON PUGET SOUND UPPER SKAGIT Skagit/Whatcom WA 170800020404 COUGAR CREEK LOWER COLUMBIA LEWIS Skamania/Cowlitz WA 171100140105 UPPER GREENWATER RIVER PUGET SOUND PUYALLUP Pierce | WA | 171001040103 | SATSOP RIVER MIDDLE FORK | WASHINGTON COASTAL | LOWER CHEHALIS | Mason |
| WA 170701051004 MIDDLE LITTLE WHITE SALMON RIVER MIDDLE COLUMBIA MIDDLE COLUMBIA/HOOD Skamania WA 171100090107 LOWER BECKLER RIVER PUGET SOUND SKYKOMISH King/Snohomish WA 171100090206 LOWER SOUTH FORK SKYKOMISH RIVER PUGET SOUND SKYKOMISH Snohomish/King WA 171100200302 LOWER GRAY WOLF RIVER PUGET SOUND DUNGENESS/ELWHA Clallum WA 171100050806 LOWER BAKER RIVER-LAKE SHANNON PUGET SOUND UPPER SKAGIT Skagit/Whatcom WA 170800020404 COUGAR CREEK LOWER COLUMBIA LEWIS Skamania/Cowlitz WA 171100140105 UPPER GREENWATER RIVER PUGET SOUND PUYALLUP Pierce | | 171100060101 | SLOAN CREEK | PUGET SOUND | SAUK | Snohomish |
| WA 171100090107 LOWER BECKLER RIVER PUGET SOUND SKYKOMISH King/Snohomish WA 171100090206 LOWER SOUTH FORK SKYKOMISH RIVER PUGET SOUND SKYKOMISH Snohomish/King WA 171100200302 LOWER GRAY WOLF RIVER PUGET SOUND DUNGENESS/ELWHA Clallum WA 171100050806 LOWER BAKER RIVER-LAKE SHANNON PUGET SOUND UPPER SKAGIT Skagit/Whatcom WA 170800020404 COUGAR CREEK LOWER COLUMBIA LEWIS Skamania/Cowlitz WA 171100140105 UPPER GREENWATER RIVER PUGET SOUND PUYALLUP Pierce | WA | 170200080204 | CEDAR CREEK | UPPER COLUMBIA | METHOW | Okanogan |
| WA 171100090206 LOWER SOUTH FORK SKYKOMISH RIVER PUGET SOUND SKYKOMISH Snohomish/King WA 171100200302 LOWER GRAY WOLF RIVER PUGET SOUND DUNGENESS/ELWHA CIallum WA 171100050806 LOWER BAKER RIVER-LAKE SHANNON PUGET SOUND UPPER SKAGIT Skagit/Whatcom WA 170800020404 COUGAR CREEK LOWER COLUMBIA LEWIS Skamania/Cowlitz WA 171100140105 UPPER GREENWATER RIVER PUGET SOUND PUYALLUP Pierce | WA | 170701051004 | MIDDLE LITTLE WHITE SALMON RIVER | MIDDLE COLUMBIA | MIDDLE COLUMBIA/HOOD | Skamania |
| WA 171100200302 LOWER GRAY WOLF RIVER PUGET SOUND DUNGENESS/ELWHA Clallum WA 171100050806 LOWER BAKER RIVER-LAKE SHANNON PUGET SOUND UPPER SKAGIT Skagit/Whatcom WA 170800020404 COUGAR CREEK LOWER COLUMBIA LEWIS Skamania/Cowlitz WA 171100140105 UPPER GREENWATER RIVER PUGET SOUND PUYALLUP Pierce | WA | 171100090107 | LOWER BECKLER RIVER | PUGET SOUND | SKYKOMISH | King/Snohomish |
| WA 171100050806 LOWER BAKER RIVER-LAKE SHANNON PUGET SOUND UPPER SKAGIT Skagit/Whatcom WA 170800020404 COUGAR CREEK LOWER COLUMBIA LEWIS Skamania/Cowlitz WA 171100140105 UPPER GREENWATER RIVER PUGET SOUND PUYALLUP Pierce | | 171100090206 | LOWER SOUTH FORK SKYKOMISH RIVER | PUGET SOUND | SKYKOMISH | Snohomish/King |
| WA 170800020404 COUGAR CREEK LOWER COLUMBIA LEWIS Skamania/Cowlitz WA 171100140105 UPPER GREENWATER RIVER PUGET SOUND PUYALLUP Pierce | WA | 171100200302 | LOWER GRAY WOLF RIVER | PUGET SOUND | DUNGENESS/ELWHA | Clallum |
| WA 171100140105 UPPER GREENWATER RIVER PUGET SOUND PUYALLUP Pierce | | 171100050806 | LOWER BAKER RIVER-LAKE SHANNON | PUGET SOUND | UPPER SKAGIT | Skagit/Whatcom |
| | WA | 170800020404 | COUGAR CREEK | LOWER COLUMBIA | LEWIS | Skamania/Cowlitz |
| WA 171001010401 NORTH SOL DUC RIVER WASHINGTON COASTAL SOLEDUC Clallum | | 171100140105 | UPPER GREENWATER RIVER | PUGET SOUND | PUYALLUP | Pierce |
| | WA | 171001010401 | NORTH SOL DUC RIVER | WASHINGTON COASTAL | SOLEDUC | Clallum |